

D & D SUBGROUP HIGHLIGHTS

March 9, 1999

This meeting was held in the EESB Chinook Room. The meeting began at 9:00 a.m.

Robotic Climber Video

Terry Lucke presented a video on the Robotic Climber that Bartlett Services, Inc. has produced. This robotic system was manufactured by Bartlett Services and Hennigan Engineering and a demo at Hanford may be performed in the near future. The Robotic Climber can be used to decontaminate surfaces, remove coatings from the surface, perform inspections of surfaces, and scabble concrete. It can climb walls and ceilings, is safety tethered, has a vacuum recovery system, and is remotely controlled via a joystick system. The waste removed is collected in a sealed tank. The unit removes the surface layer using high-pressure (up to 36,000 psi) water jets in a vacuum under the crawler. There is a filter system to reuse the water. Minimal training is required to operate this system. We are also examining other remote robotics systems to demonstrate. Further details on this unit can be found at Bartlett Services web site: www.bartlettinc.com.

Waste Management 99 Feedback

Jim Goodenough and others from the subgroup attended this conference in Tucson, AZ from February 28 - March 4. Jim attended a workshop on "How Clean is Clean?" held before the conference. This workshop examined international cleanup standards and the new US NRC standards in detail. Jim attended an International D&D session where waste retrieval from a silo at the Sellafield, England facility was discussed. This focussed on the remote removal of the waste to be packaged and disposed of. The DDFA session highlighted the old technology demonstrations, including C-reactor at Hanford, and also the new demos now underway. Two of the poster sessions at the conference included one by BHI on D&D and CERCLA and one on the WSU-TC D&D curriculum program. Jim co-chaired a session on facility closure. One interesting talk at the session was on the INEEL calcine facility D&D work where the tanks were filled with grout to RCRA standards. At the ER Waste Disposal Workshop, the Hanford ERDF and other DOE disposal sites were discussed. There was a heavy D&D emphasis at the vendor booths. One vendor display talked about an integrated project management software system called XTREMEPM that is a spin off from the STREAM software tested and used at C-Reactor. A new company, Merrimac, is marketing it now.

S&T Needs Update

Greg Berlin said the D&D Subgroup will start reviewing the needs at the April meeting and endorse them at the May meeting. The needs will be sent to all subgroup members prior to the next meeting. Meetings with projects are now taking place on the PHMC side of Hanford and BHI has finished their project meetings. There are six new CDI needs and two other BHI needs that are to be added this year. Fuel storage basin needs are also to be added. There was a discussion of whether the subgroup should prioritize the needs or

not. There was a system a few years ago for privatization but it was dropped as the DDFA did not care about it. Science needs still need to be updated and included in the package of needs.

There was a DDFA conference call recently where they tried to match the DDFA work packages to our needs from last year. We were asked to clarify and explain the needs in more detail. One area to work on was to try to link our WESF needs to the INEEL basin work that is taking place.

CDI Update

Kim Koegler stated that the crane electrical system upgrades are continuing. The ANDROS robot has been moved to the gallery to go into an HVAC vent. FETC will tell us the results of the PON awards after the week of March 15. AEA representatives will be here the week of March 22 to look at the use of low-cost manipulators. If it looks promising the next step will be to develop functional requirements statements to use the manipulator for cutting, sampling, etc. Brookhaven National Laboratory has an ASTD project that involves characterizing a graphite research reactor. This involves the use of a Canberra high resolution gamma spectroscopy system. This system may be brought here to demo as part of CDI.

Jim Goodenough will look at where CDI stands on the D&D PAIT list of projects to receive funding as part of the new EM-HQ Initiative. They are looking for projects to fund across the Complex.

Future of the STCG

Shannon Saget began a discussion of this topic because she wanted feedback from subgroup members to take into a meeting with Bob Rosselli. Kim Koegler said we need to clarify the expectations of what the STCG is and is not. He sees the STCG as necessary for the exchange of information especially for stakeholder input. It is also a way to keep the policy makers informed and aware of technology issues at Hanford. Bob Julian stated that the subgroups were definitely needed and of value. Pam Brown said the Hanford STCG is highly respected nationwide and brings credibility to the projects that are endorsed by it. Ron Izatt set up the STCG to be a Site-wide group and not just an EM-50 run organization. Jim Goodenough stated that the C-Reactor Project would not have happened without the support of the STCG. There is a need for stronger agendas at the Management Council (MC) meetings to attract the DOE-Ams. Pam said that the MC meetings run long each month and the agendas are very full so she saw no reason to meet less often. What is on the agendas could be considered more closely. Perhaps the needs should be prioritized across the entire Site. The agenda's could be focussed on one message.

Jim Goodenough announced he is taking a temporary position at Brookhaven National Laboratory to be the DOE project manager for the new Graphite Reactor Project. This is to start on April 1 and last for three months. Paul Pak will take his place on the subgroup

until he returns. The next subgroup meeting will be on April 13 and focus on the review of S&T needs for this year.

D&D Subgroup Meeting Attendees 03/09/99

Greg Berlin	FDH - TM	372-4352
Ron Borisch	BWHC	372-3382
Dennis A. Brown	DOE/STP	372-4030
Jim Goodenough	USDOE-AME	376-0893
Bob Julian	Ecology	736-5702
Kim Koegler	BHI	372-9294
David Langstaff	DOE-RL/AMF	376-5580
Terry Lucke	BWHC	373-5317
Shannon Saget	DOE-RL/AMT	372-4029
Steve Weakley	PNNL	372-4275